

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/022190 A1

(51) International Patent Classification:
H04Q 7/36

G01S 5/14,

(74) Agent: MAGNUSSON, Monica; Ericsson AB, Patent
Unit Radio Networks, S-164 80 Stockholm (SE).

(21) International Application Number:
PCT/SE2003/001367

(22) International Filing Date:
3 September 2003 (03.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): TELE-
FONAKTIEBOLAGET LM ERICSSON (publ)
[SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): STENBERG, Per,
Anders [SE/SE]; Stackvägen 37, S-191 34 Sollentuna
(SE). BERGENLID, Mikael [SE/SE]; Sidensvansvägen
25, S-192 55 Sollentuna (SE). ALTEIR-TUVESSON,
Johan [SE/SE]; Östergatan 2, S-371 39 Karlskrona (SE).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

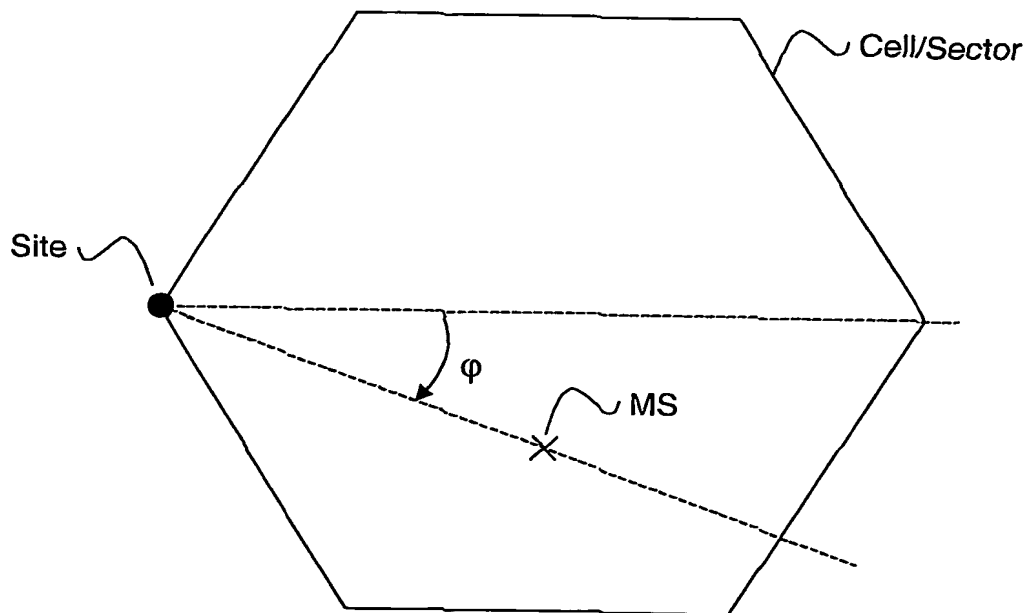
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND SYSTEM OF POSITIONING



(57) Abstract: The present invention relates to cellular mobile radio systems, particularly to systems of more than one co-sited cell/sector. A method and apparatus of satellite assistance for high accuracy positioning not requiring more terrestrial radio sites than one to be involved in positioning is disclosed.

WO 2005/022190 A1